Amendment to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

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1-17. (Canceled)

associated therewith to said second disk unit.

1 18. (Currently amended): A method of sharing data in a computer system, 2 said computer system comprising a first computer, a second computer, and a storage system 3 comprising a disk control unit, a first disk unit, a second disk unit, and a third disk unit, the 4 method comprising: forming a first duplex state between said first disk unit and said second disk unit, 5 6 wherein said disk control unit, in response to a write request from said first computer, stores 7 write data associated therewith to both said first disk unit and to said second disk unit, wherein 8 said disk control unit, in response to a write request from said second computer, stores write data 9 associated therewith to said third disk unit; 10 forming a simplex state and sending a first message from said first computer to 11 said second computer indicating forming of said simplex state, wherein said disk control unit, in response to a write request from said first computer, stores write data associated therewith only 12 13 to said first disk unit, wherein said disk control unit, in response to a write request from said 14 second computer, stores write data associated therewith to said second third disk unit; 15 subsequent to receiving said first message performing at said second computer a - 16 re-mapping operation between said second disk unit and said third disk unit; and 17 forming a second duplex state between said first disk unit and said third disk unit, 18 wherein said disk control unit, in response to a write request from said first computer, stores 19 write data associated therewith to both said first disk unit and to said third disk unit, wherein said 20 disk control unit, in response to a write request from said second computer, stores write data

19. (Previously presented): A method of sharing data according to claim 18,
further comprising forming a simplex state subsequent to forming said second duplex state,
wherein said disk control unit, in response to a write request from said first computer, stores
write data associated therewith only to said first disk unit, wherein said disk control unit, in
response to a write request from said second computer, stores write data associated therewith to
said third disk unit.

20. (Previously presented): A method of sharing data in a computer system, said computer system comprising a first computer, a second computer, and a storage system comprising a disk control unit, a first disk unit, a second disk unit, a third disk unit, and a fourth disk unit, the method comprising:

forming a duplex state between said first disk unit and said second disk unit, wherein said disk control unit, in response to a write request from said first computer, stores write data associated therewith to both said first disk unit and to said second disk unit, wherein said disk control unit, in response to a write request from said second computer, stores write data associated therewith to said fourth disk unit;

forming a simplex state and sending a message from said first computer to said second computer indicating forming of said simplex state, wherein said disk control unit, in response to a write request from said first computer, stores write data associated therewith only to said first disk unit; and

subsequent to receiving said first message, copying data stored in said second disk unit to said third disk unit and then performing at said second computer a re-mapping operation between said third disk unit and said fourth disk unit, wherein subsequent to said re-mapping said disk control unit accesses said third disk unit in response to I/O requests from said second computer; and

re-forming said duplex state between said first disk unit and said second disk unit, wherein said disk control unit, in response to a subsequent write request from said first computer, stores write data associated therewith to both said first disk unit and to said second disk unit.

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2	wherein said step of copying data includes steps of:				
3	converting a first data format of data stored in said second disk unit to a second				
4	data format; and				
5	storing said data according to said second data format to said fourth disk unit.				
1	22. (Previously presented): A method of sharing data according to claim 21,				
2	wherein said first data format is a count key data format and said second data format is a fixed-				
3	length block format.				
1	23. (Previously presented): A method of sharing data according to claim 20,				
2	wherein said computer system further comprises a processor coupled to said storage system, and				
3	said step of copying data is performed by said processor.				
	24-26. (Canceled)				
1	27. (Previously presented): A method of sharing data in a computer system,				
2	said computer system comprising a first computer, a second computer, a first storage system				
3	coupled to said first computer and comprising a first disk unit and a first disk control unit, and a				

(Previously presented): A method of sharing data according to claim 20,

unit and said second disk control unit are coupled via a network, the method comprising steps of:

forming a duplex state between said first disk unit and said second disk unit,
wherein said first disk control unit, in response to a write request from said first computer, stores
write data associated therewith to both said first disk unit and to said second disk unit, wherein
said second disk control unit, in response to a write request from said second computer, stores
write data associated therewith to said fourth disk unit;

second storage system coupled to said second computer and comprising a second disk unit, a

third disk unit, a fourth disk unit, and a second disk controller unit, wherein said first disk control

terminating execution of applications in said first computer;

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13	subsequent to said terminating, forming a simplex state, wherein said first disk			
14	control unit, in response to a write request from said first computer, stores write data associated			
15	therewith only to said first disk unit;			
16	subsequent to said step of forming a simplex state, sending a message from said			
17	first computer to said second computer indicating said simplex state, wherein said second			
18	computer performs copying data stored in said second disk unit to said third disk unit and			
19	subsequent to said copying, performs a re-mapping between said third disk unit and said fourth			
20	disk unit so that said second disk control unit now accesses said third disk unit, in response to			
21	I/O requests from said second computer; and			
22	re-forming said duplex state between said first disk unit and said second disk uni			
23	wherein said disk control unit, in response to a subsequent write request from said first compute			
24	stores write data associated therewith to both said first disk unit and to said second disk unit.			
1	28. (Previously presented): A method of sharing data according to claim 27,			
2	wherein said step of copying data includes steps of:			
3	converting a data format of data stored in said second disk unit to another data			
4	format; and			
5	storing data according to said other data format to said third disk unit.			
1	29. (Previously presented): A storage system comprising:			
2	a disk control unit; and			
3	a plurality of disk units,			
4	wherein said disk control unit is operable to form a duplex state between a first			
5	disk unit and a second disk unit, wherein data associated with a write request from a first			
6	computer is stored to both said first disk unit and to said second disk unit, wherein a third disk			
7	unit is accessed to service an I/O request from a second computer,			
8	wherein said disk control unit is further operable to form a simplex state between			

said first disk unit and said second disk unit, wherein data associated with a write request from

said first computer is stored only to said first disk unit,

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wherein during said simplex state, an application executing on said first computer sends a message to said second computer indicating forming of said simplex state, wherein data stored in said second disk unit is copied to a third disk unit,

wherein subsequent to data being copied from said second disk unit to said third disk unit, a re-mapping of said second disk unit and said third disk unit is performed so that said second disk unit is accessed to service subsequent I/O requests from said second computer,

wherein another duplex state is formed between said first disk unit and said third disk unit so that data associated with subsequent write requests from said first computer are stored to both said first disk unit and to said third disk unit.

30. (Canceled)

- 31. (Previously presented): A storage system comprising:
- 2 a disk control unit; and
- 3 a plurality of disk units,

wherein said disk control unit is operable to form a duplex state between a first disk unit and a second disk unit, wherein data associated with a write request from a first computer is stored to both said first disk unit and to said second disk unit, wherein data associated with a write request from a second computer is stored to a fourth disk unit,

wherein said disk control unit is further operable to form a simplex state, wherein an application executing on said first computer sends a message to said second computer indicating forming of said simplex state, wherein data associated with a write request from said first computer is stored only to said first disk unit,

wherein during said simplex state, data stored in said second disk unit is copied to said third disk unit and subsequent to said copying, data associated with a write request from said second computer is stored to said third disk unit as a result of a re-mapping performed between said third disk unit and said fourth disk unit,

wherein said duplex state is re-formed between said first disk unit and said second disk unit.

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first disk unit and said third disk unit.

1	32.	(Previously presented): The storage system of claim 31, wherein data	
2	stored on said second disk unit is of a first data format and data stored on said third disk unit is of		
3	a second data format.		
1	33.	(Previously presented): The storage system of claim 32, wherein said first	
2	data format is a cou	ant key data format and said second data format is a fixed-length block format.	
	34.	(Canceled)	
1	35.	(Previously presented): A storage system comprising:	
2	a disk control unit;		
3	a plurality of disk units; and		
4	a network connecting at least some of said disk units,		
5	said disk control unit being operable to copy data stored in a first disk unit to a		
6	second disk unit via said network,		
7	said disk control unit being operable to form a duplex state between said first disk		
8	unit and said second disk unit, wherein data associated with a write request from a first computer		
9	is stored to both said first disk unit and to said second disk unit, wherein data associated with a		
10	write request from a second computer is stored to a third disk unit,		
11	said disk control unit further being operable to form a simplex state, wherein an		
12	application executing on said first computer sends a message to said second computer indicating		
13	forming of said simplex state, wherein data associated with a write request from said first		
14	computer is stored only to said first disk unit,		
15	wherein during said simplex state, data stored in said second disk unit is copied to		
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a third disk unit and, subsequent to said copying, said second computer accesses said second disk

unit as a result of a re-mapping performed between said second disk unit and said third disk unit,

disk unit so that data in subsequent write requests from said first computer are stored in both said

wherein another duplex state is formed between said first disk unit and said third

- 1 36. (Previously presented): The storage system of claim 27, wherein data
- 2 stored on said second disk unit is of a first data format and data stored on said third disk unit is of
- 3 a second data format.

37 and 38. (Canceled)